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NOTICE OF ALLOWANCE AND FEE(S) DUE

26615

7590

06/08/2004

HARRITY & SNYDER, LLP 11240 WAPLES MILL ROAD SUITE 300 FAIRFAX, VA 22030 EXAMINER
BOAKYE, ALEXANDER O

PAPER NUMBER

ART UNIT

DATE MAILED: 06/08/2004

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/534.838	03/24/2000	Stefan Dyckerhoff	JNP-0017	2629

TITLE OF INVENTION: BANDWIDTH DIVISION FOR PACKET PROCESSING

APPLN. TYPE	SMALL ENTITY	ISSUE FEE	PUBLICATION FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1330	\$0	\$1330	09/08/2004

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. <u>PROSECUTION ON THE MERITS IS CLOSED</u>. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE REFLECTS A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE APPLIED IN THIS APPLICATION. THE PTOL-85B (OR AN EQUIVALENT) MUST BE RETURNED WITHIN THIS PERIOD EVEN IF NO FEE IS DUE OR THE APPLICATION WILL BE REGARDED AS ABANDONED.

HOW TO REPLY TO THIS NOTICE:

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If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

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If the SMALL ENTITY is shown as NO:

- A. Pay TOTAL FEE(S) DUE shown above, or
- B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check the box below and enclose the PUBLICATION FEE and 1/2 the ISSUE FEE shown above.
- ☐ Applicant claims SMALL ENTITY status. See 37 CFR 1.27.
- II. PART B FEE(S) TRANSMITTAL should be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). Even if the fee(s) have already been paid, Part B Fee(s) Transmittal should be completed and returned. If you are charging the fee(s) to your deposit account, section "4b" of Part B Fee(s) Transmittal should be completed and an extra copy of the form should be submitted.
- III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

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appropriate. All further con indicated unless corrected i maintenance fee notification	respondence including the P below or directed otherwise is.	atent, advance order in Block 1, by (a)	ers and notification specifying a new	ICATION FEE (if require on of maintenance fees correspondence address	uired). Blocks 1 through 4 s will be mailed to the currents; and/or (b) indicating a sep	should be completed where t correspondence address as arate "FEE ADDRESS" for
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BOAKYE, AI	EXANDER O	2667	*	370-428000	_	
CFR 1.363). names of up to			on the patent front page, list (1) the o 3 registered patent attorneys or tratively, (2) the name of a single			
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PTO/SB/47 Rev 03-02 or more recent) attached. Use of a Customer				ents. If no name is liste		
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SUITE 300	S MILL KOAD		ART UNIT	PAPER NUMBER
FAIRFAX, VA 22030			2667	
			DATE MAII ED: 06/08/200	4

Determination of Patent Term Extension under 35 U.S.C. 154 (b)

(application filed after June 7, 1995 but prior to May 29, 2000)

The Patent Term Extension is 0 day(s). Any patent to issue from the above-identified application will include an indication of the 0 day extension on the front page.

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Extension is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) system (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (703) 305-1383. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at (703) 305-8283.

	Application No.	Applicant(s)			
Notice of Allowability	09/534,838 Examiner	DYCKERHOFF ET AL. Art Unit			
•					
	ALEXANDER BOAKYE	2667			
The MAILING DATE of this communication appear All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RI	(OR REMAINS) CLOSED in this ap or other appropriate communicatio IGHTS. This application is subject	oplication. If not included in will be mailed in due course. THIS			
1. This communication is responsive to <u>04/14/04</u> .					
2. The allowed claim(s) is/are 1-6,8-11, 13-30; renumbered a	s1-12,13-15,22,16-28 respectively.	÷			
3. \boxtimes The drawings filed on <u>19 March 2001</u> are accepted by the	Examiner.				
 4. ☐ Acknowledgment is made of a claim for foreign priority ur a) ☐ All b) ☐ Some* c) ☐ None of the: 1. ☐ Certified copies of the priority documents have 2. ☐ Certified copies of the priority documents have 3. ☐ Copies of the certified copies of the priority do International Bureau (PCT Rule 17.2(a)). * Certified copies not received: 	be been received. be been received in Application No.				
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONN THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		complying with the requirements			
5. A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which give					
6. CORRECTED DRAWINGS (as "replacement sheets") mus		•			
(a) including changes required by the Notice of Draftspers	• ,	9-948) attached			
1) hereto or 2) to Paper No./Mail Date		05			
(b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date					
Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in t					
 DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL. 					
Attachment(s)					
1. Notice of References Cited (PTO-892)	5. Notice of Informal	Patent Application (PTO-152)			
2. Notice of Draftperson's Patent Drawing Review (PTO-948)	6. ☐ Interview Summar	y (PTO-413), ate			
3. Information Disclosure Statements (PTO-1449 or PTO/SB/0 Paper No./Mail Date	Paper No./Mail Da 08), 7. 🗌 Examiner's Amend	Iment/Comment			
4. Examiner's Comment Regarding Requirement for Deposit		nent of Reasons for Allowance			
of Biological Material	9. Other				

Application/Control Number: 09/534,838

Art Unit: 2667

REASONS FOR ALLOWANCE

1. The following is an examiner's statement of reasons for allowance: Claims 1-11,13-30 are considered allowable since when reading the claims in light of the specification, none of the references of record alone or in combination disclose or suggest the combination of limitations specified in the independent claims. As to claims 1-11,13 and 14, the prior art of record does not teach a plurality of counters indicative of a level of bandwidth consumption of each of the packet processors; a controller for analyzing the level of bandwidth consumption of each of the packet processors based on the plurality of counters and allocating a data packet to one of the packet processors having a lowest level of bandwidth consumption. As to claims 15, the prior art of record does not teach a plurality of cross-bars for receiving the second set of input streams from the packet processors, multiplexing the second set of input streams, and providing a second set of output streams. As to claims 16-24, the prior art of record does not teach determining, based on the bandwidth consumed by the packet processors, which one of the packet processors has consumed a least amount of bandwidth; allocating a next data packet to the one of the packet processors which has consumed the least amount of bandwidth. As to claims 25-30, the prior art of record does not teach determining, by the controller, which one of the packet processors consumed a least amount of bandwidth; and allocating the data packet to the one of the packet processors that consumed the least amount of bandwidth.

Application/Control Number: 09/534,838

Art Unit: 2667

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on

Page 3

Statement of Reasons for Allowance."

Conclusion

2. Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Alexander Boakye whose telephone number is (703)

308-9554. The examiner can normally be reached on M-F from 8:30am to 6:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Chi Pham, can be reached on (703) 305-4378. The fax number is (703)

872-9306. Any inquiry of a general nature or relating to the status of this application or

proceeding should be directed to the group receptionist whose telephone number is

(703) 305-4750.

Alexander Boakye

Patent Examiner

AB

6/02/04

CHI PHAM

SUPERVISORY PATENT EXAMINER

TECHNOLOGY CENTER 2600 6/7 Com